

REMARKS

A. *Status of Application*

Claims 1-19 are pending. Claims 1, 5, 11, 16 & 17 have been amended. Claims, 6, 8, 10 and 12 have been canceled. Claims 1-5, 7, 9, 11 and 13-19 are pending and are presented for reconsideration.

B. *Section 102 Rejection*

1. *Claim 11 is Not Anticipated*

Claim 11 stands rejected under 35 U.S.C. § 102(e) as allegedly being anticipated by U.S. Patent No. 6,597,748 to Hietala *et al.* In light of the claim amendments above and the foregoing comments, applicants respectfully traverse.

Amended Independent claim 11, has been amended to include the limitations appearing in original claim 12, and 12 has been cancelled. Thus, claim 11 now recites, in pertinent part:

a complex analog-to-digital converter for converting one of the real and imaginary components of the asymmetric baseband input signal into a quantized real output signal and a quantized imaginary output signal, the complex analog-to-digital converter comprising,
a first complex sigma-delta modulator, including a real integrator coupled to the first complex sigma-delta modulator, for converting the first sigma-delta modulated signal into the quantized real output signal and the quantized imaginary output signal, and a second complex sigma-delta modulator including, a real integrator, coupled to the first complex sigma-delta modulator, for converting the first sigma-delta modulated signal into the quantized real output signal and the quantized imaginary output signal.

The recited real integrator appears nowhere in the Hietala *et al.* reference. Withdrawal of the rejection under § 102(e) is respectfully requested.

C. *Section 103 Rejection*

Claims 1-10, 12-19 stand rejected under 35 U.S.C § 103(a) as being allegedly unpatentable over U.S. Patent No.: 6,539,592 to Yang *et al.* in view of the Hietala reference. Applicant respectfully traverses.

Claim 5 has been amended to include the limitations appearing in original claim 6. As a result, claim 6 has been cancelled, as have claims 8 and 10 which included similar limitations. Independent claims, 16 and 17 have been amended to include limitations similar to those added to claim 5. Thus, independent claims 1, 5, 16 and 17 now recite, in pertinent part: “a real integration process” or a “real integrator,” in the sigma delta modulator.

In contrast, the combination of Yang and Hietala fails to disclose or render obvious the detail of including a real integrator in the sigma-delta modulator. The final office action incorrectly points to Fig. 3 (22, 52) of Yang to allegedly show the limitation of a real integrator, but nowhere in the patent is a real integrator disclosed. As detailed by Yang col. 5 lines 26-30, the Fig. 3 modulators do not include real integrators. Rather items 22 and 52 include adders, single-sample delay elements, a threshold detector, and a digital-to-analog converter. Further, the Hietala reference does not supply the deficiencies.

For at least these reasons, neither the Hietala reference nor the Yang reference, separately or in combination, teach or suggest the elements presently recited in independent claims 1, 5, 11, 16, and 17. Therefore, independent claims 1, 5, 11, 16, and 17, and their respective dependent claims are patentable over the cited references. Applicant respectfully requests the removal of the § 103 rejections.

PETITION FOR EXTENSION OF TIME

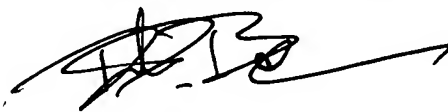
Pursuant to 37 C.F.R. § 1.136(a), Applicant petitions for an extension of time of two-months up to and including August 7, 2006 (August 6, 2006, falling on Sunday), in which to respond to the outstanding Office Action. A check for the large entity fee for a two-month extension of time (\$450.00) is enclosed. Should any additional fees under 37 C.F.R. §§ 1.16 to 1.21 be required for any reason relating to the enclosed materials, or should an overpayment be included, the Commissioner is authorized to deduct or credit the appropriate fees to or from Fulbright & Jaworski Deposit Account No. 50-1212/MOTB:036US/DDB.

CONCLUSION

Applicant believes the foregoing to be a full and complete response to the subject Final Office Action, and respectfully requests the withdrawal of the rejections to claims, the allowance of claims 1-5, 7-19, and the issuance of a timely Notice of Allowance.

Should the Examiner believe that a personal discussion would be helpful, he is encouraged to contact the undersigned attorney at 512/536-3005 with any questions, comments, or suggestions relating to the referenced patent application.

Respectfully submitted,



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